

US EPA RECORDS CENTER REGION 5

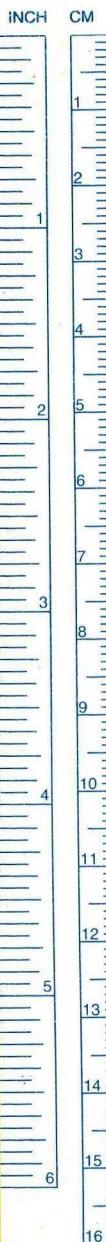


503942



"*Rite in the Rain*"
ALL-WEATHER
FIELD BOOK
No. 350 N

MEASUREMENT CONVERSIONS



IF YOU KNOW	MULTIPLY BY	TO FIND
LENGTH		
inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles
WEIGHT		
ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds
VOLUME		
fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.056	quarts
liters	0.264	gallons (U.S.)
TEMPERATURE		
$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times .555$		
$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$		
Inches	Decimals of foot	Millimeters
1/16	.0052	1.5875
1/8	.0104	3.1750
3/16	.0156	4.7625
1/4	.0208	6.3500
5/16	.0260	7.9350
3/8	.0313	9.5250
1/2	.0417	12.700
5/8	.0521	15.875
3/4	.0625	19.050
7/8	.0729	22.225
1"	.0833	25.400
2"	.1667	50.800
3"	.2500	76.200
4"	.3333	101.600
5"	.4167	127.000
6"	.5000	152.400
7"	.5833	177.800
8"	.6667	203.200
9"	.7500	228.600
10"	.8333	254.000
11"	.9167	279.400
1 foot	1.0000	304.800

"Rite in the Rain®
ALL-WEATHER WRITING PAPER



Name Mitchell S. Green Ave.
Sub.

Address 12

Phone _____

Project _____

"Rite in the Rain" - a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.

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CONTENTS		
PAGE	REFERENCE	DATE

6/04/01

0715 START Sawicki on-site; coordinate Michigan Testing Services on-site removing Air compressor from buried area

0830 OX Powers on-site; Vince Peters All tech (sub to TTEM) on-site.

0845 Michcon (Darrell Grassmyer) on-site plan is to replace valve with a section of pipe and stage all soils on usgreen on-site; valve is inside of fence line or may be along side; Section will be replaced each night for security

0900 Michcon and Michigan Trenching entered the site. Removing fence adjacent to the vault for the valve.

0945 Fence section removed. Removing a plug from the southern pipe.

1015 Started excavation to remove the vault. Plugs had been removed from the gas main on the south and verified that the main had been shut off.

1125 Vince showed Darrell the metal roofing/siding on and near the High Voltage Wire Pole. He is going to call Debbie Fisher of the City of Detroit and let her know about it. We both agreed that Detroit Edison should be involved in the removal process.

1150 Had started excavating the W side of the vault. Stop for lunch.

1250 Removed a 4"Ø plug from the 20"Ø abandoned pipe to the south and put in a tap. Using a compressor to blow out the pipe.

1305 Ross Powers noticed a strong gas smell on RR Tracks about 20 feet E of Green.

1400 In the area on the RR Tracks with the strong gas smell, Ross and I noticed black liquid

droplets on the leaves of the weeds and bushes. This is near the wooden electric pole and silver electric box.

1405 The 20"Ø pipe has been broken and an ~12 foot long section was removed.

1505 Still excavating and removing the 20"Ø pipe. V. Peters leaving site.

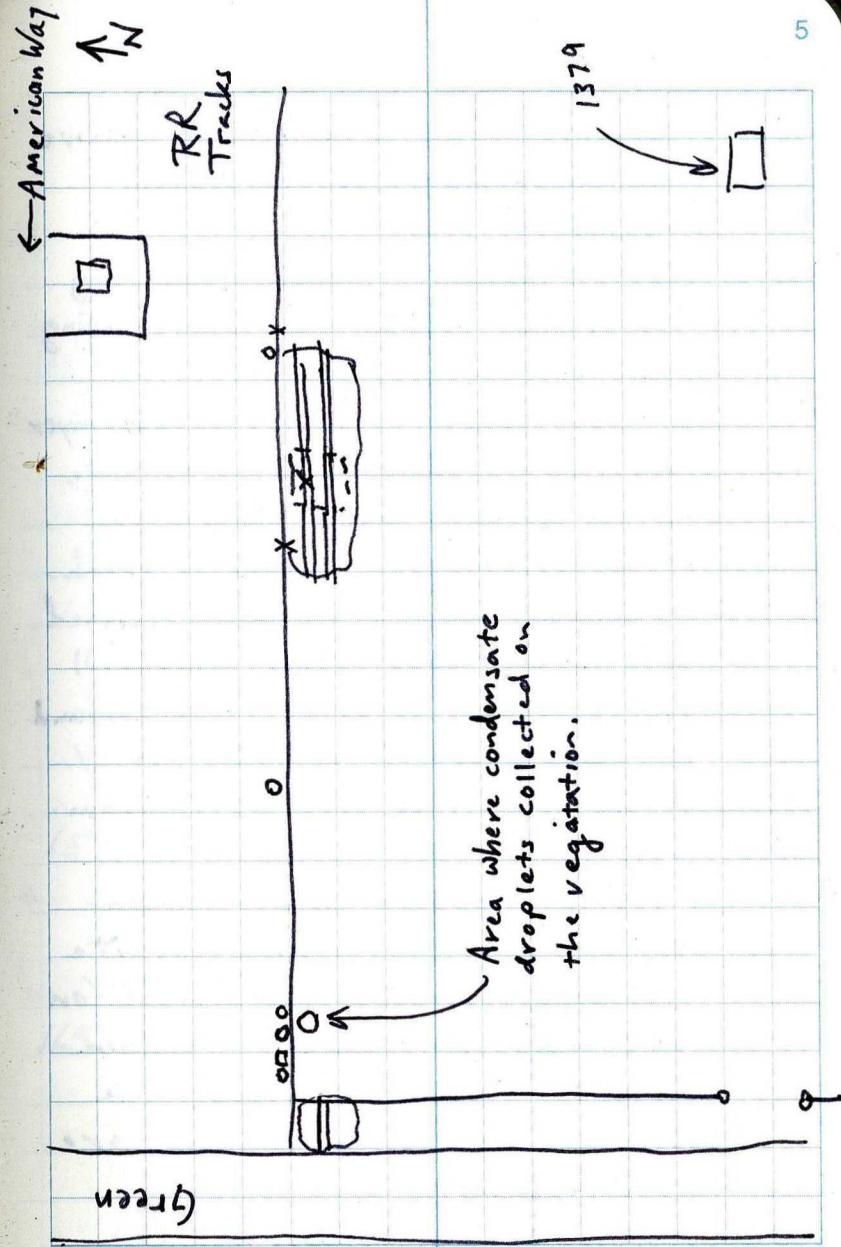
1635 V. Peters back at the site. Every one else is gone. The fence has been replaced where it was taken down. Both ends of the 20"Ø pipe were plugged with bricks and mortar. The vegetation covered with condensate has not been removed. Gate is closed and locked.

1655 V. Peters left the site.

6/15/01

0710 V. Peters arrived on-site. Michigan Trenching Service, Inc. was on-site but hadn't started

removing the fence or uncovering the excavated soil). The excavation at the NW corner of the site was completed before we arrived on Monday at 07:30. It was ~12 feet EW and ~10 feet NS and ~6 feet deep. It contained only the gas main from which the valve was being removed. The soil in the excavation were brown sand, gravel, and clay. Roots were in the soils at the W end of the excavation. The excavation at the Valve Pit was ~25 feet EW, ~10 feet NS and ~6 feet deep. The vault was made with brick walls. The soil around the NE VIP side of the vault was black and had a septic odor. One of the contractors said that it was common to find soils like this near gas mains. As the excavation was completed to the S and NE VIP the black colored soil ended.



- 0830 Detroit Edison is on-site to remove metal roofing from the Edison tower.
- 0855 Detroit Edison finished removing the metal roofing that was hanging on their tower.
- 0905 Det. Ed. leaving the site D. Grassmyer going to the property S of the site to see if they want their roof.
- 0945 MI Trenching is taking a break. It appears that they have finished excavation work. Next they will finish removing dirt from around the pipe where it is to be cut. V. Peters left the site at 9:48 am.
- 6/6/01
- 0705 Vince Peters arrived on-site. MI Trenching on-site waiting to find out if Milcon will work today. The rain might be a problem. The fences and barricades are still in place.
- 0750 Milcon expects to work today.

- They haven't yet arrived on-site. MI Trenching is setting up and pumping water out of the excavation in American Way. V. Peters left the site @ 7:50.
- 1240 V. Peters arrived at the site. The gas has been shut off, the pipe purged, and the section with the valve has been cut and removed. They are now cutting the new pipe to be put in-place of the valve section. Darrell G. of Milcon said that they will not backfill the pit today. V. Peters left the site at 1300.
- 1545 V. Peters arrived on-site. The new section of pipe has been installed and the main is being brought upto pressure.
- 1655 Only a couple of the MI Trenching workers are still on-site wrapping up operations. All of the Milcon workers are gone. V. Peters left the site @ 1655.

6/7/01

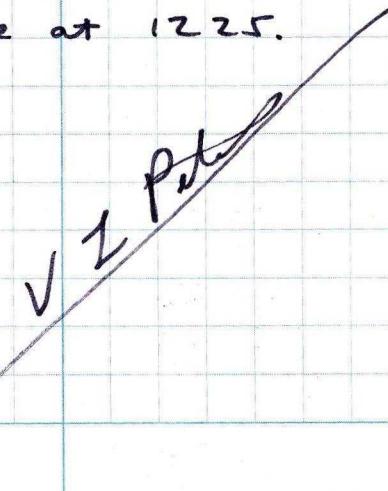
0755 V. Peters arrived at the site. MI Trenching is on-site but had not started working on the site yet. MI Trenching had wrapped the new pipe before they left last night. This morning, after verifying that there were no leaks, they wrapped the new joints. They started backfilling the excavation where the valve pit had been located at about 0830. The vegetation stained with condensate and approximately six inches of soil was removed and added to the soils stockpiled on the plastic.

0845 Valve excavation backfilled approximately halfway.

0930 Start Sawicki on-site. Mich-Can Grassmyer meeting with owner or manager of the buildings front of the site

and his insurance agent. Grassmyer takes them on-site so they can take photographs of the metal roofing by the Edison Tower. Grassmyer will update D. Fisher at the City of Detroit regarding the roofing.

1225 The valve pit excavation has been backfilled. The fence has been reinstalled. Soils excavated at the site have been consolidated into one pile on plastic and covered with plastic. Peters left the site at 1225.



07/30/01 Time - 09:40

Clear skies, Temp. -85

ROSS Powers, Darrel Glassmyer,
Daniel Strybel, Frank Conrad,
Wayne Lambert, Phil Roger
Kenneth Moberry and three
Inland Waters personnel were
on site.

SITI - Anne Nwamba.

10:00 Meeting started with
discussion of issues on the
agenda Daniel had prepared.

The following issues were discussed:

1.0 Contact list

MPS (Mr Lambert) to prepare
a contact list for both MPS and
Inland Waters and forward to
Daniel. I will also prepare
a contact list and forward to
Daniel. Daniel will compile
the site contact list and
make them available to the
appropriate personnel involved
in the project.

2.0 Revisions to Excavation work plan.

2.1 "maximum Removal Action"

Daniel and Frank indicated
that some site is overgrown
with weeds & will be difficult
marking out this area and
other areas of concern.

The site has to be brush
hogged prior to marking out.
MPS will be out to brush
hog the site on wednesday
August 1st, 2001

2.2 Blue-tinted soils

Item 2.1 as 280 applied
here.

2.3 Sampling of fill materials

Mr Lambert will get back
with Daniel on the fill material
MPS intend using.

2.4 Hand auger boring

Daniel indicated that hand
auger boring will be adopted.
Frank will be conducting the
waste characterization on

wednesday August 1, 2002.
 Ross indicated that I might be collecting split sample if need be for the waste characterization.

2.5 Temporary facility

EPA representatives and 15 personnel will be sharing temporary facility with MPS personnel. A trailer and portable toilet will be brought to site within this week.

2.6 Brush hogging of site

MPS ~~indicated~~ (Mr Lambert) indicated that brush hogging of site will be on Wednesday August 1, 2002. Time is not yet set for this activity. Frank will get back with me regard this.

2.7 Abandonment of Monitoring wells

Darrel indicated that wells within the excavation will

be dugged out and fill with b stone. Ross wants documentation of all wells removed from site.

2.8 Surface cover (topsoil & seed required)

Darrel pointed out that since topsoil and seed are not required Mrs Fisher (of City of Detroit) still have concern on possible dust that might be generated if site is not seeded. Mr Lambert indicated MPS will be using a particular type of fill that will minimize dust. Darrel will get back with Mr Fisher to discuss this.

3.0 Water and Sewer line

Darrel indicated that the water and sewer lines will be terminated or plugged according to the city code.

4.0 Health and Safety.

Darrel indicated that Frank

(II on site personnel) will be conducting site safety and meeting every morning. Frank will keep track of people who visit the site and their purpose. Ross indicated concern on public schools that are around the site. Darrel mentioned that since the proposed truck route was not approved, MPS will need to establish a new truck route. Ross wants the south Post Avenue road to be avoided as much as possible. Daniel will work with MPS regarding the approval of a new truck route, by the local Police Department.

Daniel pointed out that all personnel working on site will make his 40hrs/8hrs training certificate available to him.

I also indicated I would like to keep copies of the certificate. Daniel indicated the MPS should establish an emergency evacuation zone across South Green Avenue road in front of the site.

Mr Lambert indicated MPS will be using L & D Trucking and Great Lakes Trucking. He also pointed out that some other trucking companies that have contact with them might be used. Ross indicated the importance of the truck drivers and all on site personnel adhering to site Health and Safety Plan. He pointed out that the health and safety of all personnel is paramount. Daniel made a copy of the Health and Safety Plan available to me.

5.O : Implementation Schedule .

Mr Lambert will prepare MPS work schedule before mobilization. He indicated mobilization would start on the week of August 6, 2001. Mr Lambert estimated the project to last for 30 days.

10:45 Site walk through.
Pd two pictures of the entire site, the Tar well, #P 19

10:55 Left to site.

Date - 08/1/01

Time - 12:50, SIAZ - Navanha. Clear skies, sunny 93°F. Frank was on site with sampling equipment.

Took pictures of the Tar well before opening. Took pictures after removal of the metal gate covering the well.

Three pipes drains into the well. Two 6" pipes about 3ft below grade and one 2" pipe about 1ft below grade. Liquid level in the well is about 4ft below grade.

Frank labeled the Tar well Tar Well west.

Samples were drawn from well with bailers. Total ~~less~~ depth of water in well about 1ft, ~~the well~~ Below 1ft of water is sludge. The depth was under determined. Frank will go out ^{tomorrow} with a metal rod to probe into the well to determine depth of well.

11 hr ~~of~~ of liquid content of well was drawn and placed in a glass jar. The glass jar was placed in a zip lock bag and placed in a cooler for shipment to Phillips Services; Frank will be faxing me copy of the analysis to be conducted on the samples later in the day.

13:45 Left the site.

08/2/01 Time: 09:00

Clear skies, 83°F, STAR-Nwamba
Frank was present on site
MPS (Phillip Gardner &
Michael Lambardi) Mark Lombardi

09:10 Safety Briefing and Signing of HAZP.

09:20 MPS starts cutting trees to make provision for the new proposed gate on South Green Avenue road's fence. Took pictures.

Equipment on site.

- chain saw
- Caterpillar 950F
- New Holland 1920 with WOODS MD172 MOWER.

10:30 James Kozicki was on site

10:50: Dwayne Smith from MPS equipment operator was on site
Frank conducted safety briefing for both personnel.

11:00 Gained cable from phone line over fence.

11:30 MPS went for lunch.

12:40 MPS resumes clearing

12:35 Bill Grazin of Inland
water was on site. Frank
conducted safety briefing
to him.

13:15 Frank conducted safety
briefing for Gary Heilig
and William Hesbom
of Casey Fence.

13:20 Dan Hutchinson from the Erosion
^{control}
_{was on site.}

13:30 Frank start flagging
the Montfort Well most casting
MWII is not excising.

14:25 MW7 is knocked down
by the Mower. Took picture

14:45 ~~Casey~~ Casey Fence finished
installing the two poles
for the fence. took pictures

15:15 MPS conclude brush
hogging of Site. I took
picture of the site after
brush hogging

15:20 MPS left site.

15:30 Left site -

08/3/09 Time - 10:15

83°F, cloudy : STARF-Arrive
- Frank and Daniel were on
site to mark off the
site.

10:30 - Cylindrical lines were established
as a guide line.

* There could be 30-45
minute delay on rail for
trucks on rail track
adjacent to site.

The train blocked the
South Green tile road for
more than 45 minutes.

10:45 Walking round the site around
~~site~~ the fence, discovered
white debris, mounds and
materials from nearby
food produce facility.

11:30 Talked to Dan about the
MWII. MWII was found
among overgrown trees at
its location.

12:00 : Dan & Frank concludes
Marking of Site.

12:10 Left the site.

08/13/02 Time 08:00, site, Nwan
Clear skies

No one was on site. Called Frank & Dan. Frank will be out to sample by 11:00. ~~14:00~~
Dan informed me MPS will be out by 11 to start Site Prep.

08:20: Call Dave to brief him on the development.

08:30 left site.

10:52: Returned to site.

Frank was on site to sample. Water sample were being collected from MW3, MW10 and MW4. ~~Sample~~ water sample could not be collected from MW7 because it was broken during the site clearing by MPS Mower.

12:30 MPS front loader brought to site.

13:15 called Davel and left

message on his voice mail regarding issue of back filling of excavation prior to confirmation sample. I had asked him to give Dave a call.

14:30 Chris Lambardi (Machine operator) was on site. Frank briefed him of HASP. James Roszycki and Mark Lambardi were on site to conduct the grading of truck road in the site.

14:45: left site.

Tuesday

08/14/01 Time : 06:30

Temp - 75°F, start, ~~down~~ 330 ft backhoeEquipment on site. DSC series II grader
06:30 - ~~From~~ MPS personnel already
on site.The truck except from Site
has been graded.

07:00 Frank was on site.

Frank conducted safety
tailgate meeting. Total no
of personnel on site 5. No of
truck drivers 4.Dan was on site to help
set up ~~IT~~ monitoring equipment
for the site.07:15 The hydrant close to the
newly installed gate was
taped, the water to be
used as a dust control08:30 MPS started excavation at 6'
at the south east corner
close to the oil and gas
separators. A 24" line runsthe excavator at about 8'
The line was punctured) that
the content drains into the
excavation. The liquid
appeared very dark with
gasoline sheen. From Gasoline
odor was persistent. NO PID/FID read11:00 : Frank and Dan collected
water samples from the
spill in the excavation12:30 MPS trucks brought
excavation backfill to
site. It was dumped on
northeast corner of site
on nylon screen. (visqueen)13:30 Dave was on site. He
~~pointed out the issue the~~
~~points of the issue of~~
metallurgy of 3rd monitoring
station
He brought up the issue that
it was discussed in the

Air monitoring

Meeting that 4 stations would be set up for adequate projection of wind direction. He also pointed out that the wind sack it was installed is not picking up wind direction because it was low and installed on a north east corner of site where the grass is dense. Frank indicated that an electronic weather monitor will be brought out to site tomorrow. Frank also would talk to Dan or Dariel about the issue of no of Air Monitoring stations that was addressed on the meeting.

14:05 ITS PDR not functioning. Dead battery

14:30 : Vince Peters was on site. Frank conducted safety briefing to him

18:00 Dan was on site to install the electronic weather monitoring equipment.

Subsequent measurement reading for dust was done with EPA PDR. It intends replacing the ~~battery~~ PDR ^{battery} tomorrow.

18:30 left site.

Wednesday

08/15/02 time - 07:00

Temp - 73°F, ~~STARR~~ - Nwamba

Wind speed - 3 mph NW

09:10 : Frank installed 4 Air Monitoring stations

07:25 Health and Safety Tailgate
Morning meeting.Dan checked the installed
electronic weather station.I mentioned to Dan that
a form of documentation is
to be kept for the calibration
of the weather equipment.Dan will provide me
with the information regarding
documentation of calibration
of all equipment
used on site.The issue of no of monitoring
stations, dust generation
and weather monitoring
was been addressed.Four monitoring station were
installed at 4 corners of
the site with a duplicate
sample at the south side

Corners of site.

Dan asked if I could
collect soil sample using
hand instead of stainless
pan & spoons to avoid field
break. I spoke to Dave
regarding that. He said
it is OK for me to collect
samples with hand wearing
gloves and minimize body
contact with soil.

#

11:15 Wind speed 6 mph
Temp 88°F.

Reading for dust monitoring was
done with EPA/Technet
PDR. It yet to replace the
battery.

12:18 Dust Migration from S. Green
Ave road dust due to passing
Vehicles.13:10 Mentioned to Frank to make
available a daily sign in sheet for
people that visit the site.

Earlier Darrel had visited and I had shown him the exposed grease/oil like substance on the NE side of site. The exposed grease is located close to the ^{NE} power line across the boundary of Michcon property. The grease was exposed by Frac Truck on Tuesday 14. Darrel indicated since it is not within the property boundary IT wouldn't be concerned for that. ~~Dave~~ was notified. He mentioned Ross attention is needed for that, IT needs to prove the Frac Tank is not contaminated by exposing the substance.

13:25 IT resumes air monitoring with their ~~met~~ PDR.

16:30 Collected soil sample designated SW1 and SW2. SW2 (from soil under the 24" distribution line from gas holder NE of site).

17:45 Left site.

Thursday

8/16/01 Time: 06:55

Temp - 72°F, Windy 8 MPH \rightarrow SW
 \rightarrow SEADT = NWambsa

06:57 - Tailgate safety meshing - The form air monitoring station already in place at the site perimeter.

Duplicate sample located at Post Track.

07:00 Excavation resumes proceeding to MWAP. Dust control has been improved. Minimizes dust during excavation and truck movement.

Dust migration also ~~exists~~ noticed from vehicle passing the site on S. Green Road.

09:45 Rain

10:15: The backhoe breaks a 12" concrete pipe. The pipe runs parallel with S. Green

Ave. road. The content
drains into the excavation

12:15 Conducted perimeter air
monitoring with Frank. Frank
indicated different between
Frank PDR reading and
Mine. Suggested recalibration
of his PDR. His PDR
indicated malfunction during
calibration. His PDR needs
replacement.

12" pipe (possibly
brick) ran across
excavation. The backhoe broke
the pipe. The content spilled
into excavation. Spoke to
Daniel regarding this. He
suggested it might be a storm
water drain. The pipe ran
parallel to the S. Green Ave and
close to MW4 in the SE
direction. Daniel indicated the
pipe would be investigated.
I informed him a form of

confirmation sample would be
required to show the spill is
not a form of contamination.

14:45 - Down pour
temp 70°f, wind speed
3 mph S

Excavation proceeded
south east. Exposing the
gas holder foundation.
Cracks ~~exist~~ were observed
on the gas holder founda-
tion (200,000 cu ft)
MW10 was replaced.

The 12" pipe was draining
what appears to be brownish
liquid into the excavation.
The pipe was traced to a
manhole located within the
extent of maximum removal
area. The manhole
also has a pipe draining

possibly
cater
from a ~~cast~~ basin located
out side the site across
S. Green Ave. road.

15:50 Frank II brought in
~~new P~~ new P for Frank.

16:40 Conducted perimeter
air monitoring

Friday 8/17/01 Time : 06:50

Temp : 63°F. SW - 9 mph
Cloudy -
Siizi - Nwamba.

07:00 Excavation resumes proceeding
south east. MW4 is removed.
No drain from the
the 12" pipe in the excavation

10:48 Collected soil sample from
~~the~~ designated SW4 and
SW5. ^{maximum} PID reading on
~~the~~ both locations were
89 ppm and 3.0 ppm. IT
readings were 134 ppm and
3.6 ppm. The PID reading
were taken from soil
sample in a zip lock
bag.

Called Vince and informed
him. Vince suggested since
no direct threat to healthly
that it ^{not} short be a concern.

sample
Soil from SW4 appears dark

and sandy with oil sheen.
The SWS soil sample appeared
greyish and loose.

It collected soil sample
SW 6.

13:00

Excavator contained south
east exposing part of
the 200,000 cu ft gas holder
foundation. Cracks were
observed on the foundation.
Strong gasoline / coal tar
smell. No indication on
PID/FID instrument for hydro-
carbons.

Monday 08/20/01, Time: 05:45

Cloudy, rain, Temp 63°F

05:50 - calibrated PID, FID

PDR & ~~MSA~~ MSA

Sims-Nwankwo

06:55

Arrived on site.

07:00

Fallgate safety meeting

07:10

Excavations resumed
on the ~~the~~ boundary of
the extent of maximum
removal action area

south-west of site.

The excavation run
parallel with S. Green
Ave road.

08:50

~~Excavations continue~~

MPS decide to continue
excavations from south-
east to North-east along
the previously excavated
area.

08:17

The inside of the 200,000
cu ft gas holder was exposed
Sediment of Tar, and yellowish
substance were observed.

PID, FID reading ~~were~~
were 0.2 ppm and 0.0 ppm
respectively. The PDR showed
0.021 mg/m³. Excavations ^{on} ~~in~~ the exposed
foundation and the content was
at the stoped. Frank called
his office and a man is
waiting on reply from the
Health and Safety people.
Excavation continued outside
the gas holder. The feed back
from Frank has people way that
the MDS will be using ~~over~~
Outer pack to store the 55 gal
drums and its content. The
Outer pack will be kept on
a Visequeen in a stage area.

08:30 Ross Power was on site for
site walk through.
During the site work through
Ross indicated that the
Fuel tank parked on the
property East of the Michigan

property should be move).
MPS is the restriction their
activities within the Michigan
property boundary.

16:15 During ~~excavation~~, air monitoring,
II PID showed 0 ppm. My
PID showed a peak of 2.5
ppm then fall to 0.2 ppm.
Both PIDs were tested
during perimeter air monitoring
within industrial pen and IT PID
still showed zero ppm.
Frank had to go recalibrate
the PID.
FID showed 0 ppm.

17:01 Frank recalibrated his
PID for the 2nd time during
the day. The PID seems
to be working. The ^{PID} was able
to peak reading from the
the industrial pen used
earlier to test for

17:30 - Concluded final perimeter air monitoring. T.

Tuesday 8/20/02 Time 07:00

Temp - 61°F partly cloudy
SIGHT - Nwamba.

07:00 ~ Excavation resume. The excavation continued North east exposing the concrete foundation for the car & oil separator.

10:30 The excavations continued from the dirt close to to 200,000 cu ft gas holder foundation; proceeding North-east.

13:40 A 55 gal drum was exposed, the drum's content was spilling into the excavation. The content appeared) milky. The PID/FID showed ^{at breaking zone} 0 ppm. The drum was excavated and placed on Visqueen close to the ~~the~~ 55 gal drums ~~we~~ exposed earlier in the 200,000 cu ft gas holder foundation.

14:10 The Temp reading from the weather station is giving a reading 20°F above actual Temp reading from the radio.

Suggested to Frank to take a closer look at the weather monitor to rectify the discrepancies. Frank indicated that since the Temp reading is not relevant to project that it would involve taking ~~reading~~ Temp reading from the monitor.

I suggested that if that is the case, I should rectify or have the temp gauge removed as it gives a deceptive reading compare to the actual Temp. Frank should also inform Dan of the ~~fact~~ arbitrary

Temp reading from the weather station.

sample from front tank
14:00 : Frank collected ~~the~~ liquid for analysis

14:45 PID reading from the 55 gal drum was a peak of 7.5 ppm with the probe sticking close to the drums. The content appeared dark with pungent odor. The picture of the drum on a Visqueen was taken.

Five 110 gal drums were brought to site to be used as over pack.

I indicated to Frank that before work would start on the ~~the~~ exposed drums the Health and Safety plan should be amended to reflect work relating to drum handling.

15:15 Darral was on site. Darral

agreed that the Health and safety plan would be amended accordingly regarding drum handling

15:30 - More liquid from the excavation was pumped into the frac tank.

As excavation continued more liquid from the underground water accumulate in the excavations. Berms are created in the excavation to minimize the flow of the liquid into the newly excavated area.

The analysis from the frac tank was accepted by Dynacel, for more liquid from the excavations to be pumped into it.

Wednesday 8/22/01 Temp - 69°F

Time: 06:30, Site: Nwamta.
Weather - cloudy.

07:16 - During perimeter air monitoring excavation was resumed. Strong smell was detected observed around the North-east side of the excavation close to the air monitoring station installed at that location. The PID indicated a peak of 2.5 ppm. FID indicated 0 ppm. The PID did not go below 0.5 ppm for more than 2 minutes.

08:10

FID shows indicated a peak 3.8 ppm at the breathing zone of the excavation. 20 ft away the PID indicated 0.7 ppm. No indication from FID. The excavation was between the 200,000 cu ft gas holder and the Tar and oil separator foundation.

08:20 PID reading inside the cubicle for the loader operator was a peak of 5.1 ppm ^{not} sustained but fluctuates for ~~2 minutes~~ and a reading of ~~2.5~~ 4.5 ppm minimum. The PID was left there for a duration of 4 minutes.

12:15 Rain - drizzle.

Four 55 gal drums were exposed. The drums content appeared very dark, possibly tar, the PID indicated 0ppm. The exposed drums were excavated ^{outside the} North side of the 200,000 cu ft gas holder. Excavation around the area with drums was stop till the health-and safety plan is amended and drum handing included.

13:00 Excavation was shifted to the North-east ~~site~~ east

the boundary of the extent of maximum removal action area. The 24" pipe that ran across the excavation was excavated. Several other piping network were excavated. The pipes were broken and loaded with the excavated stuff. PID reading at the breaking zone indicated a peak of 1.8 ppm No indication on FID. The olfactory indication was pungent odour.

13:10 Chris Larson of II was on site to replace Frank. He will be serving as the II on site personnel for when Frank leaves the site

15:35 ~~The~~ freek More liquid from the excavations was pumped into the track tank. The

Tank was full and ~~was~~ the content would be pumped out the next day.

Due to the down pour more ~~was~~ liquid was accumulated on the excavations.

Thursday 8/23/09 Time - 6:30

Weather - cloudy -
Sidi - Nulambo.

- 06:32 - MPS start pumping the liquid waste from Frack tank into Tanker for offsite removal.
- 07:00 - safety Tailgate meeting
- 07:15 - Excavation resumed.
Personnel air Monitoring conducted during excavations
- 08:30 - Ross was on site.
- 09:10 - PID reading was a peak of 5.1 ppm without dropping below 2.5 ppm for a period of over 5 minutes during excavation at the North - West end of the excavation at the extent of maximum removal area.

- 09:18 Frank conducted air monitoring with Sensidyne

which is used to test for presence of benzene.

The test indicated no presence of benzene in the breathing zone of the excavation.

09:30 Devil was on site.

10:40 Further excavation on the North-west part of the extent of maximum removal action area exposed the 75,000 cu ft gas holder. There are minimal cracks in the foundation of this gas holder. The 75,000 cu ft gas holder foundation is about 3½ ft below grade.

10:40 The draft of the amendment report of the Health and Safety Plan regarding drum handling was reviewed by Devil, Ross and I

I indicated that ~~as~~ apart from drums encountered other containers and tubular enclosures ^{with substances} should be incorporated in the HASP. Devil indicated that such would be treated as drums.

11:30 MPS - Ken Moberly & Inland Water - Rich Walsh were on site to inspect the drums to be removed. It is noted that a work plan for the drum handling should be drafted prior to drum removal.

14:40 Soil sample was collected ^{wall} from the NE side ~~of~~ of the extent of maximum removal action area. The sample was collected under network of pipe protruding from the ~~the~~ sidewall. This is located approximately 37ft from the east corner of the ~~the~~ extent of maximum removal action area.

A 2nd Frac Tank was brought to site to complement the 1st Frac Tank.

Three

During the review of the HASP Devrel indicated that the pipes encountered during excavation would be broken or crushed by the loader and loaded with soil ^{transported} ~~going~~ to the landfill.

15:30 More Liquid from the excavation was pumped into the 1st frac tank after three tanked loads of liquid were pumped out of it and transported to Dynewel Inc.

16:10 Conducted perimeter air monitoring.

FRI DAY

8/24/01 Time 06:30

Temp - 65°F. Cloudy.
START = Nwamisa

07:10 - Tailgate Safety meeting

07:15 - Excavation resumed. The excavation was around the 75,000 cu ft gas holder foundation. Part of the waste gas plant foundation was excavated.

08:45

~~start~~ Dan, Ken (^{inland}MPS), Tom Kinney of II were on site for over view of the drums excavated. The drum handing would be conducted on Monday August 27, as proposed by MPS/inland water. HASP amendment will be provided on site before commencement of the drum removal actions.

The oil house foundation was exposed during excavation. ^{1/2 of} ~~the~~ [#] foundation was observed to be directly in the ~~the~~ 75,000 cu ft gas holder towards the western side of the gas holder.

The outer side of the oil house foundation was concrete while brick was observed to be lined inside. There was tarlike substances ~~that~~ was observed inside the oil house. The substances were loaded to the trucks with compacted soil and transported to the landfill.

The ~~25~~ excavation of the 75,000 cu ft gas holder also occurred. The foundation was observed to have no rebars.

The excavation of part

of the spray pond building foundation occurred.

→ A second frac tank was brought to site. More liquids were pumped into the frac tank from the excavation. Liquids sample of the content of the frac tank was collected by it and sent to lab for analysis.

MONDAY

8/27/01

Time: 06:35

Temp - 68°F

Cloudy skies S2A27: Naramba

08:00 - Tail gate meeting.

09:00 - Meeting with U.S. EPA
Rep., IT, Tetra Tech, AltTech

\$ MPS rep ~~is discussing~~
 the HASP ^{assessment} for the drum
~~handing~~ and the Sub-
 sequent removal action.

MPS will set up a ~~staging~~
~~and clean~~ area close to
 the location where the
 drums were found. The 5
 drums were found in the
 200,000 cu ft gas holder
 foundation. 5 drums were
 found ^{at the excavation} north of the
 outside of 200,000 cu ft
 gas holder. Two tar
 traps were found at the ^{excavation}
 north corner of extent
 of maximum removal
 action area

10:49 : The staging area was prepared⁵⁹
 the decon area established.

11:05 The excavator operator on
 an air supply respirator ~~entered~~ pulled ~~the~~ ^{one} nine
 drums and two tar traps
 on a designated area on a
 trolley.

11:45 Two MPS personals on level
 B, entered the designated
 dist zone to take collect
 samples from the drums &
 tar trap. One personnel
^{was} ~~was~~ One other personnel
 designated outside the
 staging area to serve as
 a support team. Perimeter
 air monitoring was conducted
 by ~~the~~ around the ~~bleaching~~
 zone where the drums were
 staged. Individual PID/LEL
 reading were collected before
 sampling. The drums were
 labelled and sample.

12:58 6 drums and the ^{two} tar
 traps were sampled.

Composite samples were sampled from drums that contain tar-like substances.

15:00 More excavation on the 200,000 cu ft gas holder exposed 6 more drums. The drums were staged on the staging area and sampled.

~~16:00~~

16:00 All drums containing the tar-like substances were collected in a lined roll off box. Two drums containing the yellowish substance were left on a rigging and covered.

Dewatering and excavations and pumping of liquids from ~~excavation~~ tanks to tanker continued.

Dynacal indicated it was OK for IT to pump more liquid into the frac tank without further analysis and subsequent removal to Dynacal.

TUESDAY

08/28/01 Time - 06:45

Weather: Clear skies, 67°F
STADI: Nwamba.

06:55 - Tail gate meeting four MPS / Inland Water will be conducting the drum handling. Two will be in hot zone and the other two assumed in level B as a support team.

07:10 Excavation on the 200,000 cu ft gas holder for more drums resumed. 9 drums ^{were} ~~were~~ and 3 cells (5 gal.) were excavated. The drum with tar like substance was collected into a roll off box and covered with plastic sheeting. A bag of ^{white} powder substance was excavated. The powder substance ^{was} sampled and packed in a 55 gal drum labeled 23. Two drums

Containing the yellowish substance were collected in a lined 1 cu ft cardboard box.

A total of 25 drums and 3 pails were excavated so far.

13:00 Dewatering of the excavation and pumping of the content of each tank into tanker for transport to disposal facility.

13:35 Soil in the 200,000 cu ft gas holder were the dust of the drums were excavated was collected in side the gas holder foundation waiting for the characterization results from the disposal facility (Clinton). The PID/FID reading on the perimeter of the soil was a sustained reading of 0.5 - 1.1 ppm for over 10 minutes depending on wind direction.

WEDNESDAY,

08/29/01 Time: 06:48

Temp - 60° ~~Sunny~~ clear skies

START: Nwambsa.

07:05 - Tailgate Meeting

07:10 : MPS continued dewatering the excavation.

IT installed the four daily air monitoring station. No duplicate sample for VOC monitoring was installed, because of instrument malfunction. Duplicate sample for chst was mounted on to Post / track ^{air monitoring} location.

~~CHST~~

08:40 PID/FID reading on the perimeter of the excavated soil in the 200,000 cu ft gas holder foundation was 0.5 - 1.8 ppm sustained for over 5 minutes. The wind direction was SW. The reading was taken ~~closed~~

closest to the perimeter of the excavation closest to the S. Green Ave fence.

10:08 - The tank well east of the extent of maximum removal action area was exposed. The tank is about 15 ft long, 5 ft wide and 8 ft deep. The content appeared ~~sewered~~^{as it was} except in an enclosure. The content appeared tar-like and broke from the east side of the well foundation. The well has an access man hole.

10:45

- Spoke with Ross regarding pilrep. Ross will need by end of May. Left the site for office to ~~prepare~~ prepare the pilrep.

11:00

Concluded the pilrep and sent an e-mail copy to Tom Kearns for review. Vince also reviewed before sending it to Tom.

THURSDAY

8/30/01 Time - 06:30

Temp - 62°F, clear
STAB: Nwambsa.

07:00: Tailgate Safety meeting.
Issues discussed ~~extensive~~^{working} in excavated and access into excavations.

07:00

&

10:45

MPS ~~was~~ started breaking concrete foundation for the 75,000 Cu Ft gas holder. Concrete was transported off site by a truck. Dewatering of the excavation and subsequent off site removal to disposal facility continued into excavation.

~~10:45~~

An access ramp was built at the south, close to the 200,000 Cu Ft gas holder.

13:30: MPS started clearing the floor of the excavation

Duplicate Sample (or air monitoring of VOCs at the monitoring station was not taken).

FRIDAY

8/31/01 Time - 06:45

Temp - 69°F, cloudy
Site #: NW1000SA-

09:00 MPS started breaking the 25,000 cu ft concrete foundation. The concrete was loaded to truck and transported off-site for disposal at the Landfill.

De-watering of the excavation and subsequently removal of liquid from fractank continued.

11:45 MPS dozer operator indicated that the PID mounted in the bulldozer ~~excavator~~ working in the excavation was getting a ~~but~~ sustaining reading of between 2.5 ppm - 10 ppm at the southwest part of the 25,000 cu. ft gas holder.

It conducted air monitoring for presence of benzene. No indication of presence of

benzene on the excavation at the breaking zone.

68 TUESDAY

time - 06 35

09/04/01 - Temp - 71° F

Sunny clear skies.

STADT & Nwamba.

06:58 - Tailgate meeting

07:00 - Excavation around the
75,000 cu ft gas holder
(continued). ^{at monitoring station}

0 No duplicate sample for VOCs sample.

08:40: Meeting with U.S EPA, TetraTech
Attech, Meekon, IT and
MPS personnel.
Issues discussedAnalytical results of side
wall samples and clean fill
analytical.
^{copies of}

- Backfill of analytical results
- ~~waste~~ soil confirmation results and waste characterization results would be made available as soon as possible to avoid delays in decision making (Dan would provide all paper work every Monday)
- Denell produced a letter

69

collected

- Soil sample will be collected for waste characterization for soils on the 200,000 cu ft gas holder foundation
- It still waiting for the waste characterization compatibility result of the drums contents.
- Ross indicated that due to ~~discrepancies~~ in huge difference between our ~~new~~ soil confirmation results and IT's. that split samples would be taken in subsequent soil sampling

13:00 MPS started pumping liquid off from frac tank to tanker for disposal facility.

15:10 MPS started sloping the ~~southeast~~ side wall of ~~extent of~~ the excavation.

13:35 I collected side wall sample SW4 [for 2nd time] for (soil-formation sample).

WEDNESDAY

09/05/01

Time - 06:40

Weather - 54°F, cloudy skies-Numbro

07:00 - Tailgate safety meeting

07:05 : Daps resumed excavations at the north side of the 200,000 Cu Ft foundation.

De-watering of the excavations continued. Liquid from the excavations were been pumped into tankers.

This ~~day~~ bulldozer was on the excavation cleaning the wet excavation floor. Soil were been pushed too close to the east tail well where it was (bleaded) when dry soil before loading to trucks.

Sloping of the south east ~~west~~ side walls continued.

13:35 : P.D reading ~~wed~~ showed

* Sustaining reading of 0.7 ppm to 11.0 ppm for over 45 minutes - during truck washing.

14:20 IT conducted benzene test. No indication of presence of benzene.

15:40 II collected ~~soil~~ slurry sample from the bottom of the tar well east.

TUESDAY - 05/06/01 Time - 06:40

Temp - 60°F, mostly cloudy. si-Nevada

07:00 Tailgate safety Meeting
07:05 Excavation and dewatering continued.

09:45 Slipping of the side wall east of the excavation. Cleaning of the excavation and subsequent ~~soil~~ off site removal of soils continued.

10:45 Consistene smell of hydrocarbons ~~soil~~ during excavation and scraping of excavation floor. PTO showed no significant reading in the breathing zone.

~~Pumping~~ Dewatering and subsequent off site disposal continued.

13:00 MPS (Bwanyere) ^{dozer} operator
work in the excavator
decided to wear half
face mask. *

15:30 Part of Tar tank underground
and 450 gas oil tank foundations
were exposed.

16:10 A total of 15 truck load
of impacted soil was shipped
off site. Three tanks of
liquids were removed off
site to the disposal facility.

FRIDAY

9/07/01 Time - 06:30

Temp - 66°F, mostly cloudy
SIGHT - Nwamba

06:55 ! Tailgate meeting

07:00 Air monitoring station were
mounted. Duplicate sample
mounted at the power line
east

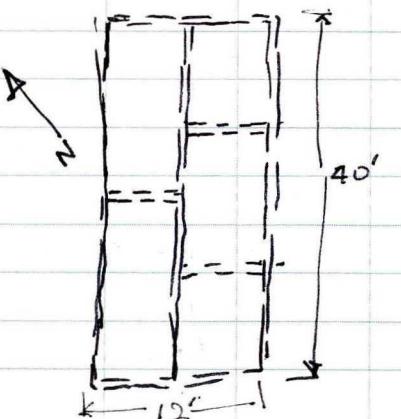
08:30 Vicar Peters, and Darrel
were on site for the
~~some~~ additional sampling
of the cleanfill. 3 soil
samples designated Clean
fill 1, 2, and 3 were sampled
from a grab. Composite
sample designated clean 4
was collected from 6 grab
soil sample on the periphery
of the backfill pile.

10:00 The 12" diameter storm water
drain and the 24" diameter
pipes were bulk headed with
PIPE

Concrete. ~~PIPES~~ The 12" diameter pipe is located south of the sidewalk of the boundary of extent of maximum removal action area while the 24" diameter pipe is located east of the ^{sidewall of the} excavation.

MPS have not been able to locate the 4" diameter pipe running off the side from the south ~~wall~~ sidewall.

13:20 The ~~soils~~ soils inside the Tar tank underground were been excavated. The tank were observed to be divided into chambers.



The liquid inside the tar was collected by LI for waste characterization. Olfactory indication showed presence of hydrocarbon.

13:25

PID/FID indication were between 0.9 - 10.1 ppm sustaining for a long period of time. It conducted Benzene test. No indication of Benzene.

17:25 - Collected floor samples

designated FS11 and FS13.

IT collected floor samples FS11, FS13 and FS8.

MONDAY

9/10/01 Time 06:45

Temp - 60°F,
SIAOT - Nwamba.08:30 Progress Meeting with U.S.
EPA, Michcon, MPS, IT, &
Artech.

- Results of the waste character
ize of soil on 200,000
cu. ft gas holder foundation
- Durrell wants the far well
west with low PCBs solidified
on site before shipment.

09:00 Removal of Soil on the
200,000 cu. ft gas holder
foundation.

MPS started breaking the concrete foundation of the gas holder. The base of the foundation was metal sheet which appeared to be part of the gas holder tank.

Due to the previous night

rain, the excavation was flooded with water. MPS will continue pumping out water off out of the excavation.

During the meeting I indicated that since part of the excavation floor was sampled on Friday Sept 7 2001, there is possibility of wet contamination migration from the unclean part of the excavation since the berm created to avoid water migration was not effective. Durrell indicated that the sampled area will be cleaned and resampled.

Durrell will also get to the city to find out about the 8-12" diameter storm water drain, cleaning up the excavation. The pipe

on Friday

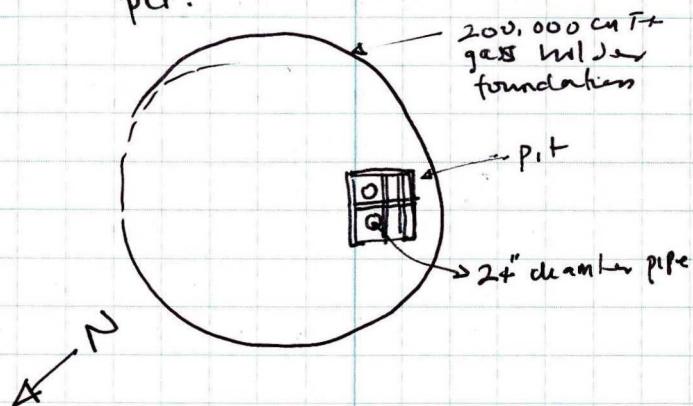
was previously plugged, but was destroyed / by the implants by the storm water.

Water was observed to be collected on the plastic cover in covering the roll off box that has the drums. Dens directed Mps to pump the water off the cover to avoid any liquid waste stream being generated from the roll box when water enters the box.

14:30

A pit about 6' by 6' was observed under the 200,000 cu. ft gas holder foundation. Two 2⁴" diameter pipe ran from the pit into the possible ~~the~~ gas holder (tank). The pit was observed to contain some liquid. A form of grating was observed

on top of the pit. Actual depth of pit could not be determined. The liquid content of the pit was about 3' above sludge in the pit.



Tuesday

9/11/01

Time - 06:55

Weather - 59°F cloudy, SW: Nw wind.

07:00 Tailgate meeting.

Received the weekly documentation for the week of Sept 9, 2001. Liquids from excavation was being removed off site. Breaking of Concrete foundation for 200,000 cu ft gas holder. The

The metal sheet (tank) was folded and placed at one area of the site.

12:30 Removal of concrete contained caps continued removing liquid from excavation.

16:15 The 12" diameter pipe south of the excavation was plugged temporarily to prevent storm water from entering the excavation - floor.

WEDNESDAY 9/12/01

Time - 06:50

Weather - 58°F clear skies

07:00 Tailgate Meeting

07:00 Excavation on the 200,000 cu ft gas holder foundation.

Duplicate sample located at Green track
No duplicate sample for dust.

08:30 De-watering the excavation completed.

Dust control measures on the truck access road.

15:00 28.40 The metal sheetings from the 200,000 cu ft gas holder was collected at the south-west corner of the site. The sheet will be reduced to a transportable sheet before removing off site to disposal facility.

16:15 Taps completed breaking

the 200,000 cu ft gas holder foundation. 85% of the concrete foundation of the gas holder ^{was} ~~had been~~ removed off site. The soil under removed.

Thursday 9/13/01 Time - 06:52

Weather - 58°F, SIGHT: Nwambe.

06:57 Tailgate meeting

07:45 ~~#~~ All the metal sheets from the 200,000 cu ft were collected at the west of the site.

There was presence of hydrocarbon smell around the pile of sheet. No indication on PHS and FDS around the breathing zone around the pile.

Excavation and removal of impacted soil at the south side of site continued.

More liquid were been from excavation into tanks and transported to the disposal facility.

02:15 : MPS subcontractor were on site to inspect the

12" diameter
~~storm wtr~~ storm water
 drain pipe for possible
 replacement.

15:45 Rain.

15:50 MPS started breaking the
 tar tank east.

The 200,000 cu ft concrete
 foundation was completely
 removed and transported
 off site.

MPS checked the water hydrate
~~located~~ in the side fort to see if
 it is could be active. The
 hydrant was observed not to
 be active. The hydrant was
 buried for easy access for the
 truck and was ~~removed~~
 during excavation activities.

FRIDAY 3/14/02 Time - 06:40

Weather - 49°F, cloudy.

06:55 - Tailgate meeting.

07:00 - MPS resumed excav-
 ation activities and
 removal of liquids from
 excavations.

08:00 MPS started cleaning the
 excavation floor where the 200,000
 cu ft gas holder foundation
 was located. Ofactory
 indications showed presence
 of fumes. ~~Ab~~ ^{at} PID
 indication showed a peak
 of 2.5 ppm.

13:45

Ken of MPS brought some
 bucket of fill back fill
 material from Detroit
 Bulk Storage Inc. for
 TI to collect sample
 for analysis.

14:00

TI flagged ^{FLW}
~~all~~ sampling

Location: FS1, FS12, FS3, FS5
 FS6 and FS13.

Sample will be collected from
these locations on Monday Sept
17, 2001.

The content of the tar well east
was been ~~estimated~~ blended
with soil and hauled off site to
the disposal facility.

MONDAY 9/17/01 Time - 06:55

Weather - 60°F

Sitzi: Nwambo.

07:00 - Excavations ~~refuse~~ activities
resumed. De-watering
activities ~~refuse~~ from the excavation
resumed.

08:40 Meeting with US EPA,
IT, Altech, MPS [Wayne
Lambert, Ken]
IT reported low level of PCBs in
the content of Tar tank underground.

10:45 MPS exposed a vessel.
The vessel has a diameter
of about 48" and about
15' long. PID indication
showed a peak of 2.9
ppm. Olfactory indicates
showed presence of hydro
carbon. The vessel appears
mostly with holes on it.
The ~~be~~ contents of the
vessel drained into the
excavation. Approximately
~~about~~ 20-40 gals of

liquids drained back to the excavation from the vessel. The vessel was collected on the stock pile of metal sheetings at the site.

16:35 IT collected floor confirmation samples FS1, FS2, FS3, FS4, FS5, FS6, FS11, FS12 & FS13.

I collected Floor Confirmation samples FS4, FS6, FS1 and FS11.

The content of the Tar ^{east} tank was blended with soil and hauled. The content of the Tar tank underground & the Tar west will be solidified and hauled to an approved off-site disposal facility.

~~MPS~~ MPS received direction to continue excavation on the Northeast corner of site. SW7 and SW8 result were also individual ~~contaminated~~ direct contact criteria.

Tuesday 9/18/01 Time - 06:40
Weather - Cloudy 62°F

S2A28: Nwamba

safety

06:55 - Tailgate meeting -

07:00 - Excavations activities resumed.

10:10 - MPS start excavate activities on the north east corner of site where SW7 and SW8 were collected.
- Excavation and dewatering.

13:20

Excavation ~~was~~ ongoing 00, 150, exposed ~~a~~ "P" ~~area~~ ~~area~~ a manhole. The manhole has an inactive 20" ϕ ~~plastic~~ pipe with a valve.

14:20

More excavator worked 250, 150, the floor of excavation was continually cleaned and dewatered. underground water was observed seeping into the ~~excavated~~ cleaned area

Booms were created to keep water from the unclean area from entering the clean area.

WEDNESDAY - 8/19/01 Time - 06:30

Weather - 64°F, scattered showers with thunder storm
START - Nwabsa.

- 07:00 - Excavation activities around 28°, 100'.

- 10:00 - Breaking of concrete ^{foundation} on same location

- 13:00 - Excavation activities around 00, 150

- The storm water pipe drain from S. Green Ave was temporarily plugged. As a result pond of water developed on S. Green ~~Ave~~^{Ave} road.

14:00 More excavations around 00, 150

THURSDAY - 9/2/01

TIME - 06:30

Weather - 62°F cloudy - SW 7-North

06:55 - Tailgate meeting

07:00 Excavation activities around
00, 150 andDe-watering of excavations
and cleaning of excavations
floor

14:25 Dave Sawili was on site.

He indicated that the MPS
should do take proper
measures to remove / vac the
~~west~~ pond of water in front
of the site. Trucks track dirt
on the road way and the dirt
washed to the pond by storm water.
He also indicated that since there
are traces of PCBs on the tar tank
underground, it should also glow
the surrounding area does not
have PCB traces as a result of
possible leachate from the tank.

Frank was informed. MPS was
also directed to cover the metal
stock pile with plastic. The pile is
located at the south east corner of
site, 15' north of the pond.

FRIDAY - 9/3/01

TIME - 06:30

Weather - 60°F Rain

15:20 SW 7 resampled.

16:30 :- MPS covered the metal ~~sheet~~
stock pile with plastic
unning.

FRIDAY - 9/21/01 Time - 06:30

Weather - 60°F Rain

STADIUM - Nwamba

06:55 - Tailgate meeting

07:00 - Excavation machine arrives
00, 180°.

08:20 - MPS pumped the ~~water~~ storm water collected in front of the site on Green road to an adjacent sewer catch basin. Frank indicated that Devrel said it was OK to pump the water into the sewer line.

~~The dirt~~ to be loaded ~~was~~ too ~~slippy~~. ~~It's~~ Any dirt & concrete was loaded to truck and removed off site to disposal facility.

MONDAY - 9/24/01 Time - 06:30

Weather - 48°F Cloudy, STADIUM - Nwamba

06:55-Tailgate Meeting

07:00 - De-watering excavation.

08:30 - Progress meeting.

- Ken indicated City wants the backfill to meet residential elevation. But it is open for negotiation.
- Devrel got harder ^{new} & PE approve the MPS proposed backfill.
- ~~Ken~~ Ken indicated the metal sheets stockpile will be removed sometime this week.
- MPS will get back with the city regarding the "12' drain water drain pipe".
- Devrel indicated that he is working on the disposal facility for the content of the far tank underground.
- Ken indicated that MPS will ~~be bringing~~ bring out a sweater

to sweep the dirt off the street once a week.
- present at the meeting were, Tech Tech, Altech, Michcon and MPS representative.

10:05

Rain

14:00

~~MPS~~ The ~~wet~~ dirt along the S. Green road was been washed with the water from fire hydrant with a hose. The water drained into the sewer line.

14:30

MPS removed the concrete breaker from site. The loader was also removed from site to another job. Further excavation will resume tomorrow Sept 25, 2001.

22 Tuesday 9/25/01 Time - ~~#~~ 06:30
Weather - 44°F Rain
at ~~FBI~~ SIAT - Nwamba
- 06:55 - Tailgate meeting
- 07:00 - De-watering of excavation
Equipment for excavation
were removed from site
to another job by MPS.
No Excavation activities.

-13:02

Left site for office.

WEDNESDAY 9/26/01 Time - 06:55

Weather - 42°F, Rain, SIAA, NW winds

07:22 - Tailgate meeting

- 07:30 - Excavation and dewatering activities
- Excavation continued at the south wall parallel to South Green road.
- ~~Due to~~ rain is slowing work progress.

THURSDAY 9/27/01 Time - 07:30

Weather - clear skies

- 07:45 - Excavations and dewatering activities
- Excavation at the south wall parallel to South Green road.

08:00 IT resampled tar tank underground.

- 09:40 Spoke to Ross - mentioned to him about the tanks with PCBs. Ross wants soil around the tank to be tested for PCBs.

Ross does not support tracking of the South Green Road with water. MPS should bring in a sweeper as they proposed or the trucks should be washed before leaving site to avoid tracking dirt along the street.

Frank & IT was informed.

MPS indicated that the water draining into the ~~soil~~ catch basin from the run off from cleaning ~~the~~ the South Green road was pumped into a frac tank. The sludge accumulated in the catch basin was removed and was taken into the site for removal to disposal facility.

08:45 Collected confirmation side wall sample SW11, IT collected SW9 and SW11

14:35 MPS brought a power sweeper to sweep the S. Green road.

FRIDAY - 9/28/02 Time - 07:10

weather - 55°F cloudy,

07:00 - Excavation at the south wall parallel to South Green Ave.

07:35 - Ross was on site. Ross wanted the tar tank underground, the tar well west and the soil (impacted soil) close to the tar tank underground to be tested for PCBs.

10:40 I concluded take the samples. Liquids sample from tar well west and tar tank underground were collected. A soil sample was collected south of the tar tank underground.

11:10 MPS started pumping out the liquids in the tar tank underground. The disposal facility is the liquids of

Delroot.

MONDAY - 10/11/01 Time - 07:00

Weather - 51°F, SIGHT: - Nwamsa

07:10 Tailgate Meeting

07:20 Excavation ^{and} dewatering activities.

- Meeting with Michigan, IT, Tetra Tech, Altech and MPS
- MPS plans on starting backfilling this week!
- ~~The~~ The stockpiled metals sheets will be removed sometimes this week.
- MPS is still working with the city regarding the backfill at the ~~site~~ site. The city has accepted Derrill indicated that the city accepted the "limestone" MPS has proposed.
-

~~08:18~~ - Excavation activities at the south west corner parallel to the south green road.

10:20 Spoke with ~~Ross~~. Ross wanted soil sample collected

From the tank south of the tar tank underground. The soil are to be tested for PCBs.

10:30: Collected ~~the~~ soil samples from the tank.

15:15: Collected ~~the~~ soil sample from the ~~local~~ stock pile of the limestone MPS has proposed. The stockpile is excavation from the DNSD, Detroit Water Sewage Department.

TUESDAY 10/02/01 Time 07:10

Weather - 51°F, clear skies, sunny: Wind NNE

07:05 - Excavation and dehalogenating activities.

09:30 - MPS started cutting the metal sheets stockpiled at the site. The ~~metal~~ A shear was brought to the site to cut the metal sheets. The sheets were loaded into roll off box.

13:00

A roll off box containing the metal sheet was removed offsite. No manifest was issued. ~~regarding~~ I spoke to Ken regarding that, indicating a manifest is required as the metal sheet is considered waste. Ken

15:00

I collected side wall sample SW12 and floor samples FS9, FS10 and FS16. It also ~~was~~ collected ~~SW~~ FS9, and FS16

• A roll off box containing lime was brought to site. The lime will be used for stabilizing of the far tank underground and far well contents.

WEDNESDAY 10/03/01 Time: 06:55
 Weather - S Clear Skies
 07:00 Tailgate Meeting
 No excavation activities

07:15 De-watering activities,
 stabilization of the
 tar tank underground.
 The tar wall west was
 stabilized, dug out the
 entire wall was dug
 out and placed in to
 the tar tank underground.

10:15 PID reading during stabil-
 ization of the tar tank
 underground was a peak
 of 40 ppm. The Sust-
 ained reading was
 observed. There was high
 wind. ~~The breaking zone~~
 No sustained reading
 at the breaking zone.

The remaining roll off box of
 sheet metal was removed
 off site

Two manifest was made for
 the two roll off boxes of
 metal sheet.

12:10 MPS continued cleaning of
 the excavation floor preparing
 it for backfilling.

I draped up samples (limestone)
 & soil confirmation sample at AAC
 ministry office --

110

THURSDAY 10/04/01 Time: 07:00

Weather: 64°F, SIARI: Nwamsa

- 07:00 - Tailgate meeting
- 08:00 - Dewatering of excavation
- 10:00 - Excavation activities.

FRIDAY 10/05/01 Time - 07:30

weather: 49°F Rain, SIARI: Nwamsa

NO Tailgate meeting

08:00 Drove ~~to~~ to Milan, MI to collect
cleanfill samples. Samples were
collected from two plank rd and
Darling Rd site.

MONDAY 10/08/01 through FRIDAY 10/12/01

NO Site activities were conducted.
Michigan & I waited for approval
of backfill from the city of
Detroit.

I spoke to Ross on Monday 10/15/01
he indicated he was out on site. He
also indicated the city will be out on
site the next day to have a look at
the sewer line.

111

Tuesday 10/16/01 Time - 07:00

weather - 45°F

- 07:45 - Tailgate meeting
- Only dewatering
- The excavation was filled
with water. The level
of water was above the
berms.
- The S. Green rd was
also observed to be flooded
- MPS engaged in de
watering activities.

THURSDAY 10/18/01 Time - 14:30

weather - sunny & clear skies

IT and ATech SIARI collected
~~Liquid Sample Composite~~
Liquid Samples from the ex-
cavation. The liquid sample were
collected from 4 location in
the excavation. The results
of the analysis will determine
if the City will allow the
liquids to the excavation

to be pumped into the sewer.
MPS applied for permit to
discharge into sewer.

TUESDAY 10/30/01
weather - 40°F
time - 10:50 : Siasi: Nwamba.

Meeting with the City of Detroit, Michcon, IT, EPA, Tetra Tech ENI, AlTech and MPS representative.

The City inspected the possible discharge outlet proposed to use by MPS. The 12" drain pipe at the south wall of the side wall will be used as a discharge point. An alternate catch basin south of the South Green road could also be used. Portable waste water treatment equipment will be brought to

site to treat the excavation water before discharging into the sanitary sewer line.

The City will provide the permit to discharge tomorrow Wednesday October 31, 2001. Dan indicated that MPS will mobilize the equipment needed for dewatering activities within two days. Dewatering activities will possibly start on Monday ~~October~~ November 5, 2001.

Present at the meeting were-

Dan Shrybel	- IT
Tom	- IT
Daniel Grassmyer	- Michcon
Ross Powers	- USEPA
Yousef Ahmed	- DWSD
Tessy Jose	- DWSD
Arunze Nwamba	- AlTech
David Sawicki	- TIENI
Ken Moberly	- MPS
James Rozycki	- MPS

MONDAY 11/06/01, site: Nwamsa

WEATHER: - 37°F clear skies

- 08:30 - Tail gate meeting
- Mobilization of the mobile water treatment equipment. Decided ^{copy of} ₁₁ discharge permit from i.i.
- 03:10 - ~~After~~ trouble shooting of the treatment equipment ~~the meter~~ with the equipment malfunctioned. The meter will be replaced tomorrow.

Approximately 10,000 gal of liquid was discharged with an interval of six hours - at the catch basin ~~about~~ ~~at~~ at the south west of the South Green road.

TUESDAY 11/06/01 Time: 08:00

WEATHER: - 40°F. Clear skies.

- 08:00 - Resumed dewatering activity
- At the end of the day approximately 14,500 gal of liquid was discharged into the sewer sanitary drain (DSWS)

WEDNESDAY 11/07/01 Time - 08:00

WEATHER: - 50°F mostly cloudy.

08:00: Dewatering activity.

Approximately 37,000 gal of liquid was discharged to DSWS

THURSDAY 11/08/01 Time - 08:00

WEATHER: - Clear skies

- The flow meter was installed initial reading - 00244100.
- Flow rate about 60gpm.

~~34,900~~ gal with 9 hr period received a copy of amended permit for discharge. Permit to

discharge for 24 hr.

FRIDAY - 11/09/01 Time 07:00

Weather: 37°F, mostly cloudy.

07:00 Detwatering activity and excavation of the clay stockpile at site.

The soil is transported to MPS facility & grab yard at 75 and 94 freeway.
Flow meter - 002760.00

09:00 11 personnel was on site
the perimeter ~~area~~ monitoring for dust was installed.

11:00 - Flow meter - 002901.00

SATURDAY - 11/10/01 Time 04:00

Weather - 50°F sunny

- Lighting features installed for 24 hr
Operation of elevators.

activities.

Flow meter - 00370000

Excavation of the clay stockpile was between 6 am to 12 pm.
20 truck loads were transported to MPS facility.

MONDAY - 11/12/01 Time - 07:00

WEATHER - 30°F Mostly cloudy

Excavation of clay stockpile and detwatering of excavation.

08:45 Flow meter - 416300

08:30 - Meeting with IT, Michigan, MPS, Altech.

- Amendment of permit to reflect the no-use of the force tank and extension of the 15 Nov 2000 date.

Tuesday - 11/13/01 Time - 13:18
 Weather: 57° F, windy, clear skies

Retiraling of excavation
No - excavation activities.

13:55: cleaning of the ~~fract~~
 tank east of the site.

~~MPS~~ provided a copy of
 confined space entry
 program. A confined space
 permit was obtained before
 entry into tank. The
 cleanup was conducted by
 three ~~MPS~~ personnel.
 One inside the tank, one
 observer and one ^{assisting}
 the person inside. tank sludge
 from the frac tank was pum-
 ped into a Vacuum tank.
 Level of protection was C,
 the oxygen level was
 constantly monitored. by

Tuesday - 11/12/01

Weather: 37° F sunny

- 0900 - The dewatering activities
 was completed on
 Monday 11/12/01, the
 reading on the flow meter
 was - 9082 GPD

The excavation floor is
 cleaned with dozer.

- 0800: Backfilling of the
 excavation with the
 clean fill from horizon
 aggregate.

0830: Progress meeting with
 EPA, MPS; ~~RI~~ and
 Altach.

- An example of the drum
 in the off box. The new
 disposal facility required
 a new analysis.
- MPS will update the
 schedule for project within
 the week.
- Hand Augering will be conducted
 at the designable areas when
 the clay pile is completely

removed. Ross wants to be present during the Hand grouting activities.

16:00: Compaction test is conducted every 5" of clean fill. Average of 94%^{reaching} compaction was obtained from the test results. The areas with less than 95% were reworked and retested by IT.

WEDNESDAY

11/21/01 - WEATHER - 40°F

Time - 07:00

- 07:00 Backfilling of excavation
- Average of 4 lift was reached with ~~about~~ 8" high a lift within the excavation.

The 24" diameter pipe on the ~~south~~ North - East corner of the side wall was grouted with brick and concrete.

A 12" diameter pipe at the east side wall was also grouted.

The water treatment equipment removed from site.

FRIDAY 11/23/01 - WEATHER - Mostly cloudy - 42°F, dry

- 07:00 Backfill of the excavation.

09:00 IT installed the perimeter air monitoring equipment.

01:00 Dust reading from PDR average 2.2 mg/m^3 ^{when} trucks run in the site.

Informed IT to ~~take~~ implement

a ~~po~~ dust control measure.

11/26/01 MONDAY Time 0700

weather 48°F - clear skies.

09:00 - Backfilling activities.

08:00 - ~~Meeting~~ Progress Meeting with, EPA, Michigan, MPS
Li and Aetechs.

- ~~Issues taken care of~~
- dewatering completed and equipment removed.

- ~~The~~ MPS will restore the 12" drain pipe (sewer pipe) that runs across the excavation after backfilling

11/27/01 TUESDAY Time 0700

weather 47°F, Drizzling

07:00 Backfilling activities.

08:00 Compaction test

11/28/01 WEDNESDAY Time 07:00

weather 48°F, Mostly cloudy.

07:00 Backfilling activities

08:30 : Dewatering of excavation water.
The liquids was transported on tankers.

18:00 - Rain

11/29/01 THURSDAY Time - 07:00

weather 41°F, rain

0700 - Backfilling of excavation.

- The backfilling has reached to an approximate height of 10-12 feet at the East side of excavation.

11/30/01 FRIDAY Time - 07:00

weather 51°F, rain storm.

07:00 MPS informed me there will be only about 6 trucks of load of ~~backfill~~ clean fill coming to the site.

The ~~work~~ ^{backfilling} was called off because of the rain. (truck leave)

getting stucked at the site.

12/3/01 MONDAY TIME: 07:00

weather - 47°F, Mostly cloudy.

- 07:00 - Backfilling of excavation
- 08:30 - Weekly progress meeting
 - Derrill is still working on the appraisal for the capsing material for the excavation.

- The storm water drain in the excavation would be restored to the original form.

- Derrill will remind Derby for regarding the blocked sewer catch basin in front of the site. The Project road is being pump into an adjacent catch basin.

13:30 Dewatering of excavation.

Dong of 17 informed me only remedial activities will be going on tomorrow Tuesday Dec 12, 2002

~~Re~~

15:30: The concrete break brought to site.

- 12/4/01 TUESDAY TIME: 10:00

weather - 51°F Clear skies.

- 09:30 - Dong informed me ~~that~~ MPS is breaking the underground concrete foundations. No form of air monitoring was been conducted. He indicated the activity will last for couple of hours while MPS waits for the tanker for the dewatering activities.

I indicated to him that a form of air monitoring must be in place if there is any form of digging or soil disturbance going on site.

The concrete ~~was~~ breaking was halted till air monitoring equipment was brought to site.

12: 35

The breaking of on the. tank underground was resumed.

The perimeter air monitoring was not installed. It conduct air monitoring around the concrete breaking activity area.

12/05/01 WEDNESDAY TIME 03:40

Weather - 66°F, sunny clear skies
- Dewatering activities.
Shut down @ 06:10

12/06/01 - THURSDAY TIME 07:30

weather - 50°F, mostly cloudy
08:45 Excavation of the clay stockpile at the site.

Davel & Tom were on site for the hand tamping. Davel

informed me that the city has approved the use of Limestone for the capping of backfilled area. The limestone was formerly ~~not~~ proposed for the backfill and was rejected by the City.

Ross was on site

09:30 - Hand auger start #A-4.

① 0-1' - ~~soil~~ HA-4 is on concrete foundation. The foundation is approximately 1 ft below grade.

② 2ft; - Soil ~~appears~~ ^{and gravel} salt soil with fine sand with limestone.

③ 3.5-4' - Salt soil, trace organic with oxide staining

④ 4.5' - Soil appear very dark fine sand, with moisture. trace organic, and oxide staining.

⑤ 5-6' - Moisture content increases, dark soil, oxide staining, it conducting air monitoring on the

on the four sample interval.
PID indicated over 0 ppm.
Ross agreed no Sampling analyses
will be need for the HAN.

09:50 H4-5

@ 2.5-3' - Soil appears dark, salt
soil. low moisture.

@ 3.5-4' - Soil upper layer ^{Sand}~~fine~~, ^{very}~~fine~~
with trace organic.

@ 4.5'-5' - soil appear craggy, ^{Sand}~~very~~
fine.

@ 5-5.5' - fine sand, oxide staining

@ 5.5-6' - coarse sand, moisture

@ 6.-7' - gravel, moisture, w.h ^{Coast}
_{sand}

Visual inspection indicated no

sign of possible contamination
on the soil. NO analyses will
be conducted on the H4-5.

10:30 Sidney Higley & Roy Scott
of the City of School were
on site for documentation.

Pump

No perimeter ~~and ambient air~~
monitoring was installed.

Shutdown @ 16:00

12/12/01 FRIDAY Time : 07:00
weather 32°F, mostly cloudy.

07:00 - Capping of backfill with
Limestone

- completed ~~removal of~~
excavation of clay
Stockpile

Shutdown @ 16:30

12/10/01 MONDAY Time: 0700
 Weather - 30°F, Mostly cloudy
 0700 - Excavation of maximum
 removal action area (NW)
 corner: (200, 100)
 - Capping of the backfill
 with ~~soil~~ limestone and
 dewatering ~~bottom~~ of
 excavation.

- 0830 Progress Meeting w. Mr. T.,
 Michelin, MPS and Atteels.
- Issues discussed
- Latest schedule
 work ends on 12/13/01
- Capping of the backfill will continue
 dewatering activity will
 continue
- Davel is still looking for
 an appropriate disposal
 facility for the roll off box.
- Soil contamination sample
 could be collected when
 any part of the designated
 sample location is exposed

Shutdown @ 12:00

- 12/11/01 TUESDAY Time: 0700
 Weather - 27°F, Mostly cloudy.
 07:00, Excavation of maximum removal
 action area and capping of
 the backfilled area. (150, 50)
- Ambient air monitoring
 concluded by 17 and 8:00
 at intervals.
 - No indication of consistency
 in PMS ~~soil~~.
 - 11:30 MPS engaged in cleaning of
 the excavated part of
 excavation area.
 - 12:30 Sewatering of excavation.
 - 14:15 Excavation extends SW
 (100, 150), excavating the
 content of tar tank under
 ground containing low level
 of PCP
 - 15:15 Dan Samuels was on site for
 briefing of site progress.
 He indicated that enquired about
 the status of the monitoring
 wells and the drain pipe to
 be restored after ^{excavation}
 activities.

16:35 : call Derrel to find out about the status of the mon. briny wells and the storm drain pipe.

Derrel indicated he will talk to Ross to find out when he wants the wells to be abandoned. ~~see~~ Different contractor will ^{conduct} ~~handle~~ abandonment.

The restringing of the ~~down~~ storm drain pipe will be included in ~~a~~ ^{the} an updated schedule.

② Shut down ③ 16:45.

12/12/01 WEDNESDAY, Time : 06:30
Weather, 37° F, foggy.

06:30 - Excavation activities,
trucks bringing backfill.
Called Ken Matherly for
lighting the site. ~~Site is too dark no day~~

ⁱⁿ light for ~~#~~ the morning hours.
Lighting source need to be put in place.

08:00

* Eric Streett of Ictra Tech was on site for training for subsequent handing of air monitoring and over site activities

18:15 Excavation ~~activities~~ extends to ^{the} SW corner of extent of maximum removal area - part of the underground Tar tank concrete structure excavated and removed off site.

Dewatering activities and stockpiling of clean fill (sand) continued.

Shut down ③ 16:45

17:10 left site (Eric Streett)

12/13/01 Thursday arrival time 06:45
weather 49°F foggy, rainy START End
Street Retro Tech on site

0645 excavating activities already begun, backfill
still dark, no lighting fixtures.

Spoke to Doug, said will bring
lights if continue to start before day light,
does not think would be worth it for
1/2 hr of use a day, excavating
inside excavation A1004150

~0805 dewatering & trucks started

- received transmittal package from
IT Dan Murray & Doug (IT), some
reports^{3rd} not there, Doug said was short
day, only 3 tankertucks for dewatering,
1/4 air pumps not used was record,
12 (10/1) air pump calibration record missing,
no explanation

- excavating along south end of excavation
and clean fill manipulated by excavator
- blue soil stockpiled by east end of site
being loaded into trucks of soil in after
noon

~0800 excavating/water stopped besides some
dewatering to tankertucks, clean fill
being dropped off

- 163d took still pictures outside of site

- 1635 left site

12/14/01 Friday arrival time 06:20 START End Street
weather: clear 44°F Street Tech on site

0840 excavating and backfill brought in already,
air monitoring pumps not in place at station A
3, C, e, f Pumps setup ~0830 my

Doug from IT
0835 TDR calibrated 0.03
0845 FDR calibrated 96.9

background before left TDR reading high
hole by Post Tower check

1635 left site

12/17/01 Monday arrival time 06:15 more here
0630 MTS crew arrived rainy 44°F

- 0645 excavating began, no Doug from IT,
air pump stations not set up
excavating at surface JG50 calibrated
0700 Doug from IT arrived JG50 calibrated
0730 Doug set up air pump stations PDI 0.00
0830 Project Meeting Tom Ross Doug
Ken Due S. Darrell Cross
-excavating due tomorrow(?)
Sylvan Minerals galvanic sensors
waiting on approval
-Floor sidewall sampling today & tomorrow
-Ross in Chicago Tues-Thurs vacation
till Sat. 7
- 1040 took floor sample #8 split soil concave
strong
- 1105 took sidewall sample, older object partially
preserved, no magnetism
- Started to backfill SW corner of excavation
with sand. Doug did compaction tests
- 1540 Trinity lab rep. packed up sample

- 11/16/01 stopped excavating, cleaned & fueled vehicles
(630) cft site
- 12/18/01 E Street ill, Danil Suzuki covered site
- 12/19/01 Wednesday arrived JG25
40°F clear
-site open, no excavation activities yet
-impacted by air pump station 3 were
not preserved
0633 calibrated PDI 0.00 0641 calibrated
0637 calibrated PDI 100.0 PDI 91.3
-0700 excavating started by a SUV 5D
Doug not here, so air pump stations
not setup, backfill still and ad light fr
- 0817 Doug, IT, arrived on site
0830 air pump stations up
- 0910 Darrel messenger, Michael, on site
- 0955

- removed remainder of piled up piping
by station B, then placed some more there
as excavated

~03:50 excavating activities stopped, began
still placing fill around N.E.C. excavation

0420 (other) H, crew working on last sand
truck coming, excavating done

12/20/01 0635 at site, linked up, no one present
Thursday 33°F cloudy

(Hed) crew member (trunk waters) arrived, opened
g.t.e., shutoff fw

0640 calibrated PDE 800 0645 calibrated
0645 calibrated PDE 98.3 F2D 95.1

0655 excavating started at site, Dug from
IT others, air monitoring pumps not
up

0735 Dug on g.t.e.

0745 Dug set up airport stations
- g.w. 1.50 gal, he sampled

1345 1350
SP

1500 Trinity lab picked up SWST sample
- Doug handed over weekly transmittal report
- Doug said blue stained soil supposed to
be sumped today, hopes to take last
samples tomorrow

- ~1555 excavating done, just trucks
dropping off fill, blue stained soil not
excavated

1625 all done

1640 - left for day

Fri 12/21/01

0635 arrived at g.t.e. 0635
calibrated PDE 95.3
clear ~29°F

- already loading one truck at site
no lights 0640 calibrated PDE 95.3
0645 calibrated PDE 95.1

0700 Doug from IT Corp arrived

0740 air traps stations you up

Doug and I

0839 sampled floor FS14

0843 took SW 17 sample

0847 took SW 18 sample

~1450 Excavating, several appear done
piled ~30' x 21' x 5' pile of soil from

- excavation on top of concrete to be hauled off on wednesday, called D. Smilki about site status, advised me to take them to cover soil pile and then scrape soil under pile advised Doug from IT of this just backfilling excavation now, resuming work on wednesday

4:00 left site

- 12/12/01 Wednesday 0630 arrived at site 0645
 19°F light snow
 - truck on site, but no excavating yet 0650 collected PDD 700.0
 no lights, no sign of pile of removed F23
 soil from excavation being covered 0730
 on site, no air quality monitors

Doug arrived, set up air quality monitors ~0730

- last F soil from excavation removed/ scraped off concrete and hauled off
- backfilling excavation still
- blue stained soil still present at site
- last F pipe sections hauled off

- Doug said MDS will not scrape hole out until New Year
- terminated discussions and left site at 1430 for family emergency

12/13/01 Thursday 0830 arrived at site (0800)
 (9°F flurries)

- just starting to work on backfilling excavation again
- Doug from IT car not here yet, 0830 arrived 0840 had air quality monitors setup
- 11:15 Doug took down air quality monitors
- 12:30 stopped work at site until next week or Tues.

11:30 left site

- 01/02/02 Wednesday 0910 arrived at site
 28°F clear
 - No one at site, appear not working at site today

01/10/02 Thursday 0835 arrived on site

- 37°F clear new
 - tracks of fill ^{asphalt}_{as}, bulldozer spreading
 Frank fill to main excavation area
 Compactor rep.
 Dug for from IT Corp not on site, air pump
~~and~~ samplers not set up
 - empty (or with solid waste) overpack drums
 hauled off site, roll off container of drummed
 waste still on site
 ~0910 Dug for from IT Corp arrived
 - roller (compactor) arrived concrete ~0930
 rep Frank turned
 0930 Dug for put up air pump monitors
 - Dug had trouble this morning, will be here
 later
 ~0950 Darrell Grossmeyer, Michon, checked
 1018 in on site roll off container with drum-
 med waste to be removed tomorrow
 - Dan Strizel from IT Corp called site
 to check in it
 - Dug for showed up late morning
 - took afternoon compaction test with new
 fill not getting required compaction %
 getting high GDS
 1040 Frank & Dug took down air
 pump

- took proctor sample to check it. If we
 stopping for the day, sample being remaining
 new fill, should have results tomorrow
 or may try wetting fill
 1000 left site

01/11/02 0815 arrived on site overcast 35°F
 air pump monitors up, tracks bringing in fill
 Dug for from IT Corp for site
 - waiting for Proctor results (should be ready
 around 1000 hrs. just bringing in fill now
 - roll off container of drummed waste being
 taken off site drums being loaded brought
 into blue roll off by front end loader, by
 blue striped Silverman
 0150 SAIA Systems ~~SE~~ Transportation Scottsbluff,
 NE tag 49545, going to Arkansas

0945 left site, rain broke out

1030 back at site met Dug, Proctor test
 good, started back filling again,
 compaction tests passing

- working on tailings tomorrow. soil not alone, will likely do on Monday

1700 left site

01/12/02 0850 arrived at site ~34°F clear cold

- no ITC reporter rep. on site, but pump monitors running, MDS has front end loader, bulldozers and graders on site

0910 Dug fox from IT car on site, was here earlier, went for food

- just grading compacting fill no new tracks & RT arrived while was on site

1120 left site

01/13/02 0900 at site ~33°F clear, still

- fuel trucks dropping off material, bulldozers front end loader in use, grading it around

- dug fox from IT car on site, air pump monitors up

- fill from Sylcate M. seems darker than previous days, the darker fill from second grader sample from sand
- also bringing in limestone cap fill

+520 D. fire truck down air monitoring pumps

- fill a limestone cap over approximately $\frac{2}{3}$ of main excavation, other $\frac{1}{3}$ appears to just need lime rock cap, blue stained soil not excavated yet

1540 left site, shut down firey

1600 Southfield offy

- set up pc, tetratene, w/ bmt, winterized desk stuff etc

01/15/02 0915 arrived at site in 30° of drizzle

- trucks arriving dropping off limestone cap material, bulldozers machine reporters on site, not working w/ equipment

- dug fox from IT car here, air pump monitors up, sand finishing filling today, blue stain to be sweeped tomorrow

- 14:15 excavator / truck has stopped off site
- Doug Fox marked blue stained soil area to be scraped tomorrow with backhoe
- maybe need 1 truck more of limestone
excavating stained soil tomorrow 0730 hrs

1530 left site

- 1/16/02 0825 arrived on site ~30' overcut
- Doug Fox & Dan Strigdal from T Corp onsite, air pump monitors up
 - full trucks leaving in lime rock cut material, bulldozed spreading it
 - track hoe excavated test hole by NW corner of main excavation (blue soil just at surface, 1.2' test hole just north of SE high tower lime tower, blue soil to depth of ~8" in spots)

0833 calibrated PDI

- PDI readings of 0.00 at test hole areas
- ~9' x 19' x 1' approximate size of SE test hole
- ~27' GW x 9'-15' air TF 6" new test hole
- dug GW test hole by SE corner of

- main excavation ~6' G-W x 2' W-S KJ'
- Danell Grossman from Michelin arrived on site
 - looked for oil-grease depression, cut rock, area was scraped already and sign of it
 - with excavators arrive test holes have ~40' rods of soil removed Mr. Grossman and Mr. Strigdal happy areas around all scraped
 - miss (black water) will have all equipment gone tomorrow morning waiting on approval to install stormwater pipe, likely sub-contractor doing it
 - readings on PDI were all 0.00
 - got transmittal report from Dan Strigdal
 - finished capping manhole with limestone
 - blue soil excavations filled with sand and capped with limestone
 - ~~- 1/17/02 gate valve removed from site ~1400 hrs~~

1435 Doug Fox took down air pump monitors

1445 left site, done besides some sweeping, PDI will call me when planned for

Tuesday - 02/05/02

Time - 8:00 weather 18°F sunny
Location - S. Green Ave Site

Personnel - Aronse Nwamka.

08:30 - Meeting with IT and the subcontractor (Sunset excavating) for the reinstallation of the storm of water drain pipe.

- Safety meeting.

09:00 - Excavation at SE portion of the connecting 12" drain storm water drain pipe.

- Dan indicated that the a ~~city~~ representative from the City will be visiting the site. He also indicated that no permit is required for the installing of the pipes.

Excavating and laying of the 12" pipe. The pipe are 12" concrete pipe. The excavation extend east approximately 30' to a ~~manhole~~ location where the manhole will be installed.

- 10:00 base of manhole installed and excavation extend south toward South Green road. To -

12:50 Subcontractor stopped further excavation and activated ~~and will back~~
~~excavation and laying~~ of the pipes will resume tomorrow.

WEDNESDAY 02/06/02

Time : 07:00, weather 26°F
personnel - Aronse Nwamka.

- 07:00 - Excavation activities resumed extending South to the South Green road.

08:00 - The manhole was complete.

12:30 - The installation of the 12" ^{water} stormdrain pipe was completed. IT conducted ^{average of} compacted test. ~~the~~ 98% compaction was achieved.

12:40 → Grading and cleaning
of the excavated areas

12:45 left side.

